



5-15-06

PATENT
Atty. Docket No. 103186
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Chang et al. Art Unit 1642
Serial No.: 10/712,359 Examiner: Minh Tam B. Davis
Filed: November 13, 2003 Conf. No. 1306
For: DOMINANT NEGATIVE VARIANTS OF METHIONINE
AMINOPEPTIDASE 2 (MetAP2) AND CLINICAL USES THEREOF

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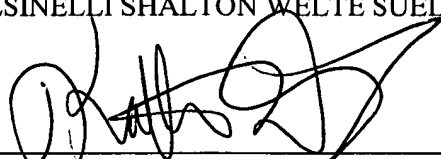
In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, Applicants submit the attached PTO/SB/08A form and copies of one (1) foreign patent document and twenty-six (26) non patent literature documents, for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

In addition, this First Supplemental Information Disclosure Statement is being submitted pursuant to 37 C.F.R. § 1.97 (b) in that Applicants believe it is being filed prior to the mailing date of the first Office Action on the merits. Accordingly, neither a statement nor fee under 37 C.F.R. § 1.97 (c) or (d) is required. However, if an Office action was issued prior to the date of

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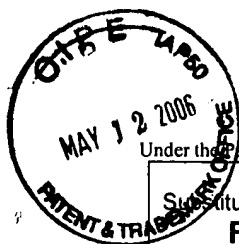
Respectfully submitted,

POLSINELLI SHALTON WELTE SUELTHAUS PC

A handwritten signature in black ink, appearing to read 'K. Doty', is written over a horizontal line.

Date: May 12, 2006

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Substitute for form 1449/PTO

**FIRST SUPPLEMENTAL
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STATEMENT BY APPLICATION**
(Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/712,359
Filing Date	11/13/2003
First Named Inventor	Chang et al.
Art Unit	1642
Examiner Name	Minh Tam B. Davis
Attorney Docket Number	103186

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appeal
		Number-Kind Code ² (if known)			
	BK	4,104,371	08/01/1978	Greven et al.	
	BL	4,119,620	10/10/1978	Nagatsu et al.	
	BM	5,686,416	11/11/1997	Kozarich et al.	
	BN	5,788,989	08/04/1998	Jansen et al.	
	BO	5,985,273	11/16/1999	Reed et al.	
	BP	6,136,604	10/24/2000	Monia et al.	
	BQ	6,184,020	02/06/2001	Blinkovsky et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, columns, lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BR	WO 99/18856 A1	04/22/1999	Cytovia, Inc.		

Examiner Signature	Date Considered
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the authority (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BS	ARFIN et al., "Eukaryotic methionyl aminopeptidases: two classes of cobalt-dependent enzyme." Proc Natl Acad Sci USA., 1995, Vol. 92, No. 17, pp. 7714-8	
	BT	AOYAGI et al., "Release of a plasma membrane-bound triaminopeptidase activity from mammalian cells by thermolysin." Biochem Biophys Res Commun., 1978, Vol. 80, No. 2, pp. 435-42.	
	BU	BEN-BASSAT et al., "Processing of the initiation methionine from proteins: properties of the Escherichia coli methionine aminopeptidase and its gene structure." J Bacteriol., 1987, Vol. 169, No. 2, pp. 751-7.	
	BV	CARTER et al., "Aspartate-specific peptidases in Salmonella typhimurium: mutants deficient in peptidase E." J Bacteriol., 1984, Vol. 159, No. 2, pp. 453-9.	
	BW	CHANG, "Purification and characterization of a methionine aminopeptidase from Saccharomyces cerevisiae." J Biol Chem., 1990, Vol. 265, No. 32, pp. 19892-7.	
	BX	COHEN et al., "Amino acid analysis utilizing phenylisothiocyanate derivatives." Anal Biochem., 1988, Vol. 174, No. 1, pp. 1-16.	

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Substitute for form 1449/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICATION <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/712,359
				Filing Date	11/13/2003
				First Named Inventor	Chang et al.
				Art Unit	1642
				Examiner Name	Minh Tam B. Davis
Sheet	3	Of	3	Attorney Docket Number	103186

	BY	DOI et al., "Modified colorimetric ninhydrin methods for peptidase assay." Anal Biochem., 1981, Vol. 118, No. 1, pp. 173-84.	
	BZ	DOUGHTY et al., "Chloride-insensitive, glycine-phenylalanine-naphthylamide hydrolysis at neutral pH in human skin fibroblasts." Biochem Cell Biol., 1986, Vol. 64, No. 8, pp. 772-81.	
	CA	HARADA et al., "Depth of side-chain pocket in the S2 subsite of dipeptidyl peptidase IV." Biochim Biophys Acta., 1985, Vol. 830, No. 3, pp. 341-4.	
	CB	IKEHARA et al., "Dipeptidyl-peptidase IV from rat liver." Methods Enzymol., 1994, Vol. 244, pp. 215-27.	
	CC	JADOT et al., "Intralysosomal hydrolysis of glycyl-L-phenylalanine 2-naphthylamide." Biochem J., 1984, Vol. 219, No. 3, pp. 965-70.	
	CD	JAIN, "Barriers to drug delivery in solid tumors." Sci Am., 1994, Vol. 271, No. 1, 58-65	
	CE	LARRABEE et al., "High-pressure liquid chromatographic method for the assay of methionine aminopeptidase activity: application to the study of enzymatic inactivation." Anal Biochem., 1999, Vol. 269, No. 1, pp. 194-8.	
	CF	LIN, "Purification and characterization of an enzyme hydrolyzing L-methionine-4-nitroanilide from germinated sweet potato roots." Bot Bull Acad Sin., Vol. 35, pp. 25-32, 1994.	
	CG	LIU et al., "Structure of human methionine aminopeptidase-2 complexed with fumagillin." Science., 1998, Vol. 282, No. 5392, pp. 1324-7.	
	CH	LOWTHER et al., "The anti-angiogenic agent fumagillin covalently modifies a conserved active-site histidine in the Escherichia coli methionine aminopeptidase." Proc Natl Acad Sci U S A., 1998, Vol. 95, No. 21, pp. 12153-7.	
	CI	MOERSCHHELL et al., "The specificities of yeast methionine aminopeptidase and acetylation of amino-terminal methionine in vivo. Processing of altered iso-1-cytochromes c created by oligonucleotide transformation." J Biol Chem., 1990, Vol. 265, No. 32, pp. 19638-43.	
	CJ	MOORE et al., "Chromatography of amino acids on sulfonated polystyrene resins." Analyt. Chem., 1958, Vol. 30, pp. 1185-1190.	
	CK	PROOST et al., "Truncation of macrophage-derived chemokine by CD26/ dipeptidyl-peptidase IV beyond its predicted cleavage site affects chemotactic activity and CC chemokine receptor 4 interaction." J Biol Chem., 1999, Vol. 274, No. 7, pp. 3988-93.	
	CL	ROTH, "Fluorescence reaction for amino acids." Anal Chem., 1971, Vol. 43, No. 7, pp. 880-2.	
	CM	SMACCHI et al., "Purification and characterization of an extracellular proline iminopeptidase from Arthrobacter nicotianae 9458." FEMS Microbiol Lett., 1999, Vol. 178, No. 1, pp. 191-7.	
	CN	STEIN et al., "Amino acid analysis with fluorescamine at the picomole level." Arch Biochem Biophys., 1973, Vol. 155, No. 1, pp. 202-12.	
	CO	TSUNASAWA et al., "Amino-terminal processing of mutant forms of yeast iso-1-cytochrome c. The specificities of methionine aminopeptidase and acetyltransferase." J Biol Chem., 1985, Vol. 260, No. 9, pp. 5382-91.	
	CP	WALKER et al., "Yeast (Saccharomyces cerevisiae) methionine aminopeptidase I: rapid purification and improved activity assay." Biotechnol Appl Biochem., 1999, Vol. 29, Pt 2, pp. 157-63.	
	CQ	WEI et al., "Continuous spectrophotometric assay of peptide deformylase." Anal Biochem.,	

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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 USC 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

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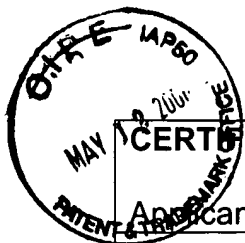
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		1997, Vol. 250, No. 1, pp. 29-34	
	CR	ZHOU et al., "Two Continuous Spectrophotometric Assays For Methionine Aminopeptidase." Analytical Biochemistry, 2000, Vol. 280, pp. 159-65.	
	CS	ZUO et al., "A protease assay via precolumn derivatization and high-performance liquid chromatography." Anal Biochem., 1994, Vol. 222, (2), pp. 514-6.	

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Applicants: Chang et al.			103186
Serial No.	Filing Date	Examiner	Group Art Unit
10/712,359	11/13/2003	Minh Tam B. Davis	1642
Invention: DOMINANT NEGATIVE VARIANTS OF METHIONINE AMINOPEPTIDASE 2 (MetAP2) AND CLINICAL USES THEREOF			

I hereby certify that:

- ☒ Letter to the Commissioner for Patents (2 pages);
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